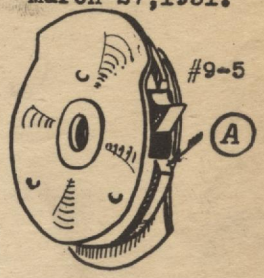
SUPPLEMENTARY MACHINE
SERVICE BULLETIN #112-A.

SUBJECT: Adjustment of Lock for Clear-out Mechanism in C and E Models.

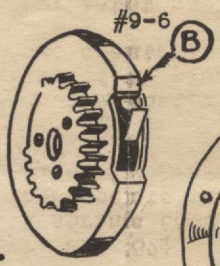
DATE: March 27,1931.

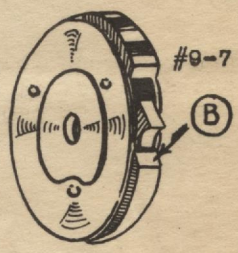
TO ALL OFFICES:



Item 1. When operating the center clear key, if the drum, #9-5, fails to rotate and a clicking sound is noted it is caused by the nose on the #9-11 being held by the edge of the slot in the drum.

To eliminate this condition, break the edge at point "A" by stoning until the drum operates freely.





Item 2. When operating either the registering dial or counting dial clear key, if the drums, #9-6 or #9-7, do not rotate and a clicking sound is noted, it is caused by either the nose on the #9-12 or #9-13, (or both) being held by the edge of the slot in the drum.

To eliminate this condition, break the edge at points "B" by filing until the drums operate freely.

CAUTION: Do not file the opposite edges of the slots in the drums, and do not file points "B" any more than is absolutely necessary.

Item 3. When the machine is in regular operation, the #9-11 must hold the #9-5 drum from rotating. On account of the friction applied to the #9-5 there is a possibility of it camming out the #9-11 by contact at point "C".

This can be eliminated by carefully grinding away the top of the #9-11 as shown by the dotted line.

NOTE: This grinding must not come below the radius of point "C" and should be slightly tapered to the rear of the nose. Grinding should be performed slowly and the part dipped in water frequently to eliminate the possibility of it overheating which would destroy the temper of the material.

The present K685 spring on the handle locating cam roller, and 787¼ spring on the machine locator arm should be replaced with springs 685C and 787¼ new style respectively, as additional tension is needed at these points to speed up the oscillation of the main shaft so as to cause it and the selecting gear shaft to neutralize more quickly.

This overcomes the friction that is set up between the machine locator arm, #9-1260, and the connecting link, #12-70, and eliminates the possibility of the plus and minus bars being locked against depression after the clearing keys are operated.

On C model machines, spring 986 should be replaced with our latest style to give a more positive action to the hammer. A supply of the replacement springs mentioned herein are being sent to all offices under separate cover.

The operations described in the foregoing should be performed on all machines.

W. M. Smith
General Service Manager

FMS/GBC